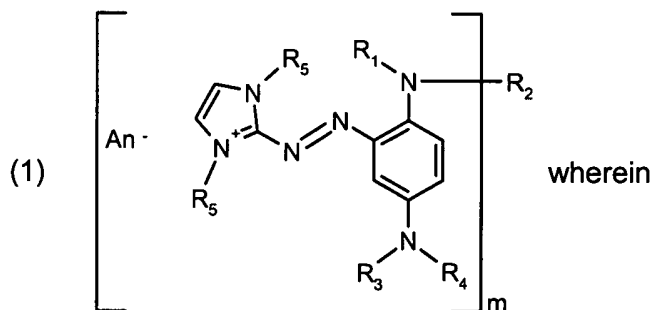
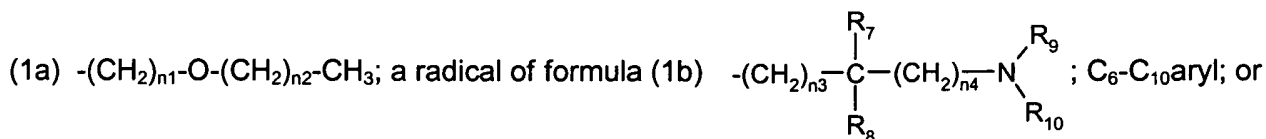


In the Claims

1. (original) Dye of formula



R_1 is hydrogen; C_1 - C_{14} alkyl; hydroxy- C_1 - C_{14} alkyl; C_2 - C_{14} alkenyl; a radical of formula



C_6 - C_{10} aryl- C_1 - C_6 alkyl;

R_3 is hydrogen; C_1 - C_{14} alkyl; C_2 - C_{14} alkenyl; C_6 - C_{10} aryl; C_6 - C_{10} aryl- C_1 - C_6 alkyl; or $CO-R_6$;

R_4 is $CO-R_6$;

R_5 is C_1 - C_{14} alkyl; C_2 - C_{14} alkenyl; C_6 - C_{10} aryl; or C_6 - C_{10} aryl- C_1 - C_6 alkyl;

R_6 is hydrogen; C_1 - C_{14} alkyl; C_2 - C_{14} alkenyl; or C_6 - C_{10} aryl;

R_7 , R_8 , R_9 and R_{10} , independently from each other are hydrogen; or C_1 - C_5 alkyl;

m is 1; or 2;

An^- is an anion;

If $m = 1$,

R_2 is hydrogen; C_1 - C_{14} alkyl; C_2 - C_{14} alkenyl; a radical of formula (1a); a radical of formula (1b) ; C_6 - C_{10} aryl; or C_6 - C_{10} aryl- C_1 - C_6 alkyl;

If $m = 2$,

R_2 is the direct bond; or C_1 - C_{14} alkylene, which is optionally substituted by one or more C_1 - C_4 alkyl, or which is optionally interrupted by C_5 - C_{10} arylene, $-O-$ or $-NR_9R_{10}-$;

R_9 and R_{10} , independently from each other are hydrogen; or C_1 - C_5 alkyl; and

n_1 , n_2 , n_3 and n_4 , independently from each other are a number from 0 to 5.

2. (original) Dye according to claim 1, wherein

the anion is selected from a halide, sulfate, hydrogen sulfate, phosphate, boron tetrafluoride, carbonate, bicarbonate, oxalate or C₁-C₈alkyl sulfate, lactate, formate, acetate, propionate and a complex anion.

3. (currently amended) Dye according to claim 1 ~~or 2~~, wherein

R₁ is hydrogen; or C₁-C₁₄alkyl;

R₃ is hydrogen; or C₁-C₁₄alkyl;

R₄ is CO-R₆;

R₅ is C₁-C₁₄alkyl;

R₆ is hydrogen; C₁-C₁₄alkyl; or C₆-C₁₀aryl;

m is 1; or 2;

An⁻ is an anion;

If m = 1,

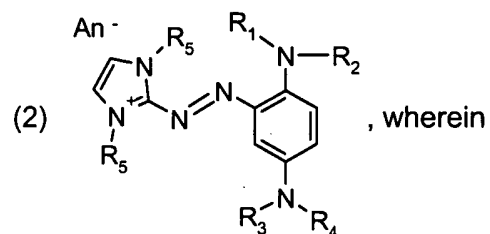
R₂ is hydrogen; C₁-C₁₄alkyl; hydroxy-C₁-C₁₄alkyl a radical of formula (1a); or a radical of formula (1b);

if m = 2,

R₂ is the direct bond; or C₁-C₁₂alkylene, which is optionally substituted by one or more C₁-C₄alkyl or interrupted by -O-, or NR₉R₁₀; and

R₉ and R₁₀ independently from each other are hydrogen; or C₁-C₅alkyl.

4. (currently amended) Dye according to claim 1 ~~any of claims 1 to 3~~, which correspond to formula



R₁ is hydrogen; or C₁-C₁₄alkyl;

R₂ is hydrogen; C₁-C₁₄alkyl; a radical of formula (1a); or a radical of formula (1b);

R₃ is hydrogen; or C₁-C₁₄alkyl;

R₄ is CO-R₆;

R₅ is C₁-C₁₄alkyl;

R₆ is hydrogen; C₁-C₁₄alkyl; or C₆-C₁₀aryl; and

An⁻ is an anion.

5. (original) Dye according to claim 4, wherein

R₁ is hydrogen; or C₁-C₄alkyl;

R₂ is C₁-C₁₄alkyl; a radical of formula (1a); or a radical of formula (1b);

An⁻ is an anion;

R₃ is hydrogen; or C₁-C₄alkyl;

R₄ is CO-R₆;

R₅ and R₆ independently from each other are is C₁-C₄alkyl.

6. (currently amended) Dye according to claim 4[[or 5]], wherein

R₁ is hydrogen; or C₁-C₄alkyl;

R₂ is C₁-C₁₂alkyl; a radical of formula (1a); or a radical of formula (1b);

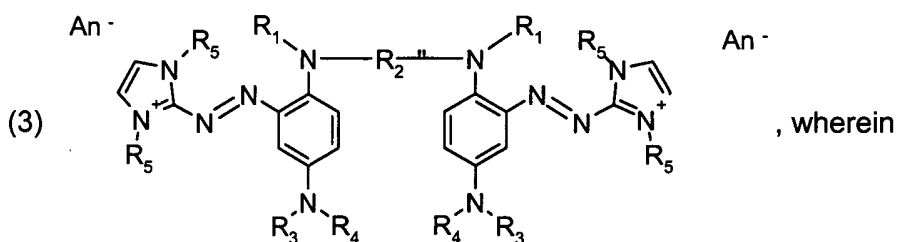
An⁻ is an anion;

R₃ is hydrogen; C₁-C₄alkyl; o

R₄ is CO-CH₃; and

R₅ is C₁-C₄alkyl.

7. (currently amended) Dye according to claim 1~~any of claims 1 to 3~~ which correspond to formula



R₁ is hydrogen; or C₁-C₁₄alkyl;

R₂ is the direct bond; or C₁-C₁₂alkylene, which is optionally substituted by one or more C₁-C₄alkyl or interrupted by -O-, or NR₉R₁₀;

R₃ is hydrogen; or C₁-C₁₄alkyl;

R₄ is CO-R₆;

R₅ is C₁-C₁₄alkyl;

R₆ is hydrogen; C₁-C₁₄alkyl; or C₆-C₁₀aryl; and

An⁻ is an anion.

8. (original) Dye according to claim 7, wherein

R₁ is hydrogen; or C₁-C₄alkyl;

R₂ is the direct bond; or C₁-C₈-alkylene, which is optionally substituted by one or more C₁-C₄alkyl or interrupted by -O-, or NR₉R₁₀;

R₃ is hydrogen; or C₁-C₄alkyl;

R₄ is CO-R₆;

R₅ is C₁-C₄alkyl;

R₆ is C₁-C₄alkyl;

R₉ and R₁₀ independently from each other are hydrogen; or C₁-C₅alkyl; and

An⁻ is an anion.

9[[.]]. (currently amended) Dye according to claim 7-~~or~~ 8, wherein

R₁ is hydrogen; or C₁-C₄alkyl;

R₂ is the direct bond; or C₁-C₈-alkylene, which is optionally substituted by one or more C₁-C₄alkyl or interrupted by -O-, or NR₉R₁₀;

R₃ is hydrogen; or C₁-C₄alkyl;

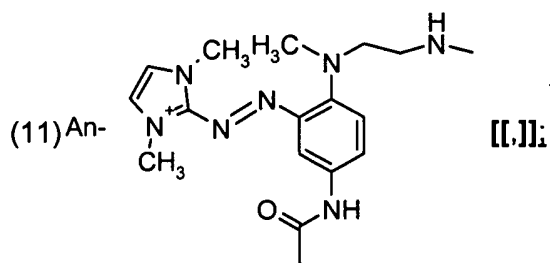
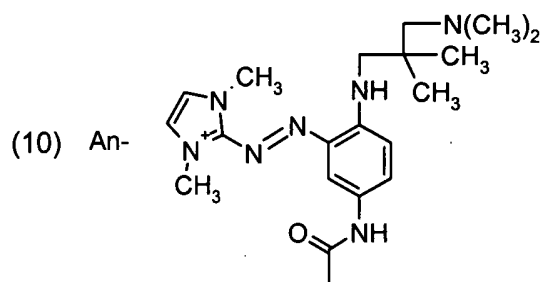
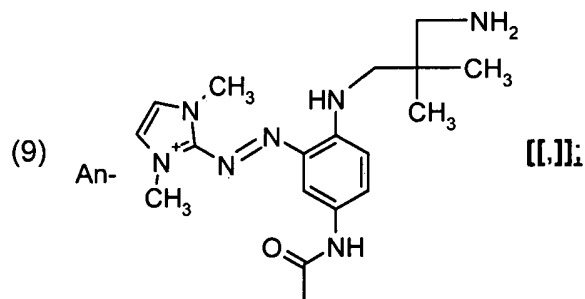
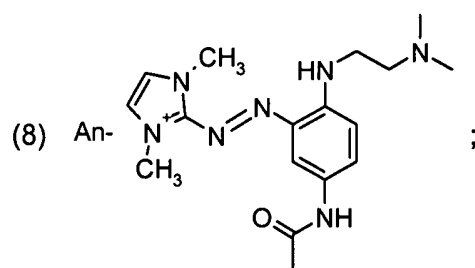
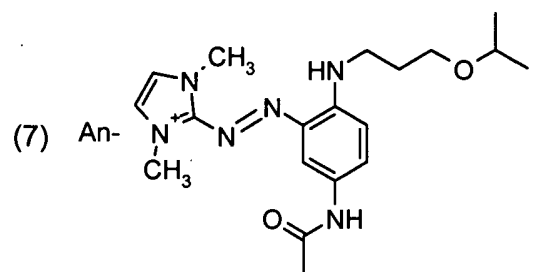
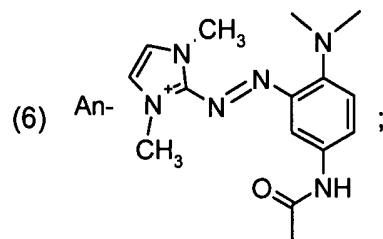
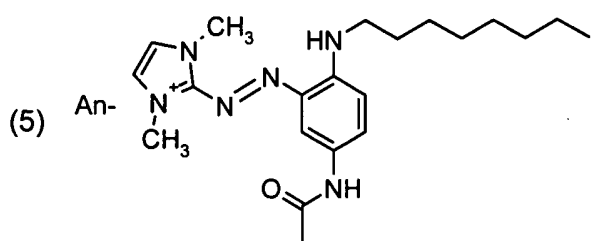
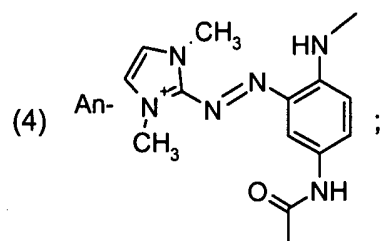
R₄ is CO-CH₃;

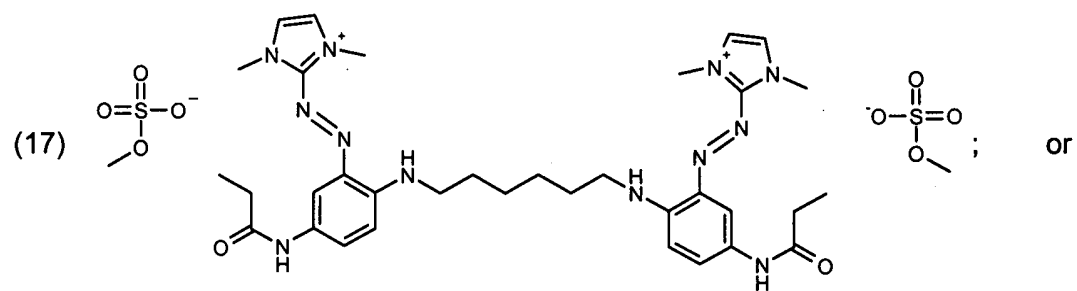
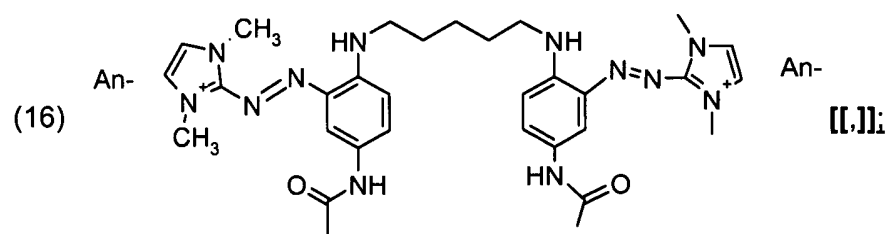
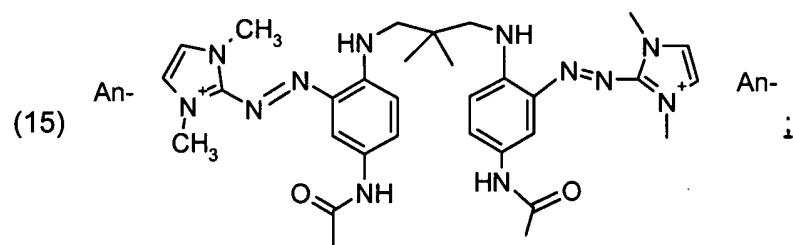
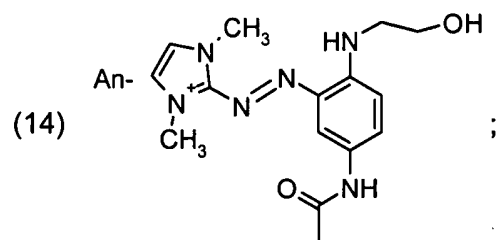
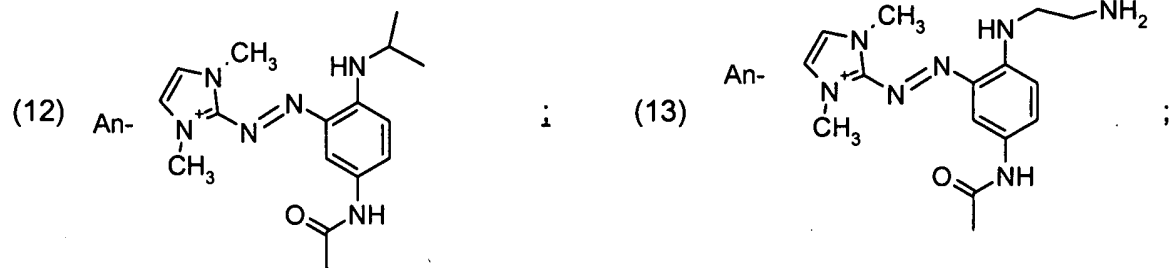
R₅ is C₁-C₄alkyl;

R₉ and R₁₀ independently from each other are hydrogen; or C₁-C₅alkyl; and

An⁻ is an anion.

10. (currently amended) Dye according to claim 1 ~~any of claims 1 to 9~~ of formula







(2a)

Chemical structure (2a) is a pyrazole ring substituted with two R_5 groups and an anion (An^-). The pyrazole ring is connected via an azo group ($N=N$) to a benzene ring. The benzene ring is substituted with four groups: R_1 and R_2 at the top position, and R_3 and R_4 at the bottom position.

~~R₁ and R₂ are each independently of the other hydrogen; or unsubstituted or substituted C₁-C₁₄alkyl, allyl[**[,]**] or aralkyl, preference is given to C₄-C₈alkyl, more preference to C₄-C₄alkyl, and most preference is given to methyl and ethyl, and especially most preference is given to methyl[**[,]**] or~~
~~R₁ is hydrogen, or unsubstituted or substituted C₁-C₁₄alkyl, allyl[**[,]**] or aralkyl[**[,]**] preference is given to C₄-C₈alkyl, more preference to C₄-C₄alkyl, and most preference is given to methyl and ethyl, and especially most preference is given to methyl, and~~

(2b)

Chemical structure (2b) is a benzene ring substituted with a quaternary pyrazole group and a tertiary amine group. The pyrazole ring is positively charged and has an An-R₅ group at the 3-position. The benzene ring has an N(R₆)R₁ group at the 1-position and an N(R₃)R₄ group at the 4-position. The pyrazole ring is connected to the benzene ring at the 2-position via a diazo group (-N=N-).

R_3 is hydrogen or an unsubstituted or substituted C_1 - C_{14} alkyl, allyl, aralkyl or $CO-R_1$;

R₄ is CO-R₉;

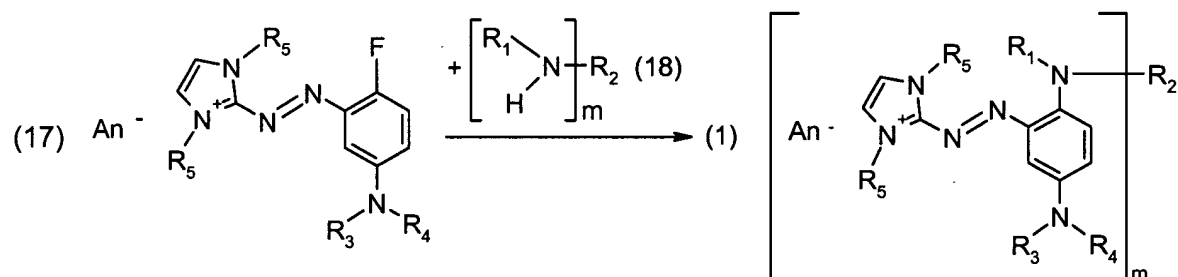
R₅ is unsubstituted or substituted C₁-C₁₄alkyl, allyl or aralkyl;

R₉ is hydrogen; or unsubstituted or substituted C₁-C₁₄alkyl, allyl or aralkyl~~[[,]] preference is given to unsubstituted C₁-C₄alkyl, and more preference to methyl;~~

and

An⁻ is an anion.

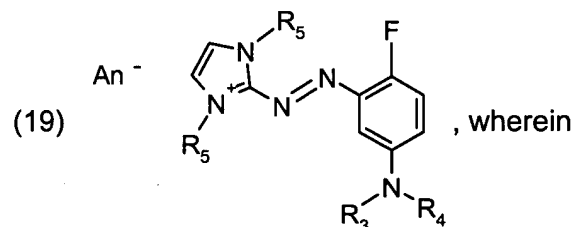
12. (currently amended) A process for the preparation of dyes of formula (1) as defined in claim 1, ~~comprising~~ which process comprises reacting a dye of formula (17) with an amine of formula (18) to give a compound of formula (1) according to the following reaction scheme:



wherein

R₁, R₂, R₃, R₄, R₅, m and An⁻ are defined as in claim 1.

13. (currently amended) Process for the preparation of dye of formula

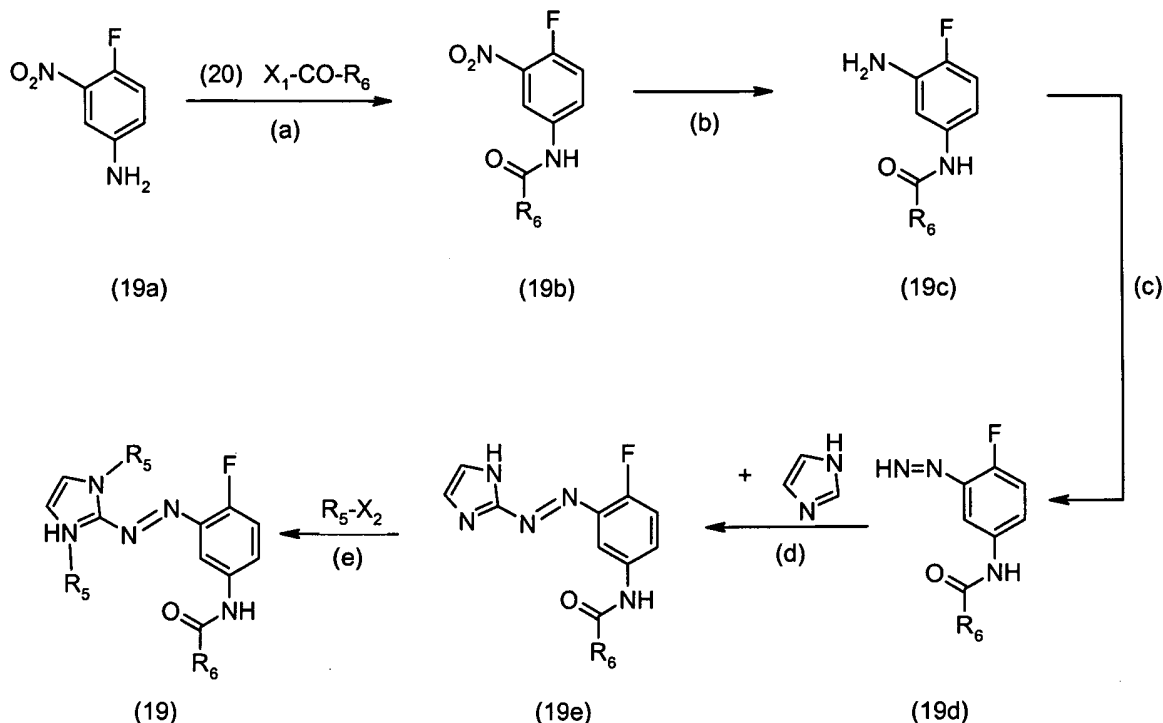


R₃ is hydrogen; and

R₄ is CO-R₆, which process comprises ~~is characterized by~~

- acylating a 4-fluoro-3-nitroanil~~[[,]]~~ of formula (19a) with an acylating agent of formula (20),
- reducing the nitro group in formula (19b) to the amino group to give the compound of formula (19c),
- diazotizing the compound of formula (19c) to give the compound of formula (19d),

- (d) coupling the diazotized compound of formula (17d) with imidazole to give the compound of formula (17e), and
- (e) alkylating the compound of formula (17e) with an alkylating agent to give the compound of formula (17), according to the following reaction scheme:



wherein

R_1, R_2, R_3, R_4, R_5 and R_6 are defined as in claim 1[[:]]

R_3 is hydrogen; C_1-C_{14} alkyl; C_2-C_{14} alkenyl; C_6-C_{10} aryl; C_6-C_{10} aryl- C_1-C_6 alkyl; or $CO-R_6$;

R_4 is $CO-R_6$;

R_5 is C_1-C_{14} alkyl; C_2-C_{14} alkenyl; C_6-C_{10} aryl; or C_6-C_{10} aryl- C_1-C_6 alkyl;

R_6 is hydrogen; C_1-C_{14} alkyl; C_2-C_{14} alkenyl; or C_6-C_{10} aryl; and

X_1 and X_2 are halogen.

14. (original) A composition comprising at least one dye of formula (1) as defined in claim 1.

15. (original) A composition according to claim 14 comprising in addition at least one single further direct dye and/or an oxidative agent.

16. (original) A composition according to claim **14** comprising in addition at least one single oxidative dye and/or; at least one single oxidative dye and an oxidative agent.

17. (currently amended) A composition according to claim 14 ~~any one of claims 14, 15 or 16 in the~~ form of a shampoo, a conditioner, a gel or an emulsion.

18. (currently amended) A method of dyeing an organic material, which comprises treating the organic material with at least one dye of formula (1) according to claim ~~1~~ 1 ~~or a composition according to any of claims 14 to 17.~~

19. (currently amended) A method according to claim ~~1~~ 1 ~~18~~, which comprises treating the organic material with at least one dye of formula (1) ~~as defined in claim 1~~ and an oxidative agent and, optionally, a further direct dye.

20. (currently amended) A method according to claim ~~1~~ 1 ~~18 and 19~~, which comprises treating the organic material with at least one compound of formula (1) ~~as defined in claim 1~~ and at least one single oxidative dye, or treating the ~~the~~ organic material with a dye of formula (1) ~~as defined in claim 1~~ and at least one single oxidative dye and an oxidative agent.

21. (currently amended) A method according to any of claim ~~1~~ 1 ~~18 to 20~~ wherein the organic material is selected from keratin-containing fibers.

22. (original) A method according to claim **19** wherein the keratin-containing fiber is human hair.